

From: Ellen Schmitt/R3/USEPA/US
Sent: 6/6/2012 3:47:13 PM
To: Victoria Binetti/R3/USEPA/US@EPA
CC:
Subject: Fw: water quality and manganese background for the catskill formation (Dimock wells)

Compliments of Bob Helverson's previous research on background levels in the Dimock area.

I have to leave at 4:00 PM today, but will look at this more tomorrow morning.

----- Forwarded by Ellen Schmitt/R3/USEPA/US on 06/06/2012 03:43 PM -----

From: Robert Helverson/R3/USEPA/US
To: Ellen Schmitt/R3/USEPA/US@EPA
Date: 06/06/2012 03:34 PM
Subject: water quality and manganese background for the catskill formation (Dimock wells)

Ellen,

As discussed, there is little for Susquehanna County background groundwater quality information. I gathered what is out there and it includes the Duke study which had limited information and the Boyer et al study that has an errata which is not currently resolved. That data is in the table and the studies are attached. The USGS study for Tioga, Bradford and Potter counties has info on the catskill formation which is the formation that Dimock residents are thought to access for DW. The USGS study notes (in Table 17) that the dissolved manganese ranges in the formation for the 3 counties from <10 - 1000 ug/L for 36 wells sampled, with the following percentiles: **50th percentile was 30 ug/L (median), 25th percentile was 97 ug/L and the 10th percentile was 180 ug/L.** These are the percentage of sampled wells in which the reported value was equaled or exceeded.

Consider all of this as draft of course. It is just helpful compilations of the data out there.

Robert H. Helverson
Regional Representative
Agency for Toxic Substances and Disease Registry (ATSDR), Region 3
Department of Health and Human Services
1650 Arch Street (3HS00)
Philadelphia, PA 19103
(215) 814-3139 (Office)
(215) 814-3003 (Fax)